

MOHAN KUMAR A

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2013 - 2016

June'17 — Present

July'16 — May'17

Jan '16 — June '16

Jan '15 — June '15

RESEARCH INTERESTS

Computer Vision, Machine Learning, Deep Learning, Document Image Analysis

EDUCATION

Integrated M.E Computer Science(With specialization in Information Security)

BITS Pilani, Hyderabad campus, India

CGPA - 6.9/10

B.Sc,Physics 2010 — 2013

V.O.C College, Tuticorin, India

CGPA- 8.2/10

WORK EXPERIENCE

SELECTED

PROJECTS

Centre for Visual Information Technology, Hyderabad, India

Research Intern

CognitiveScale,Hyderabad

Cognitive Engineer

CognitiveScale,Hyderabad

Software Developer Intern

BITS Pilani, Hyderabad

Teaching Assistant

Image Blend(Dec'17 - Present):

- To merge two images of different persons to create a multi-person photo.
- Pre-processing steps to match the brightness levels of both images.
- Haar based classifiers are used to detect the face of each person.
- Key points in the image are matched using Hamming distance and homography is used to warp both the images.
- Alpha Blending algorithm is used to blend the images together.

Handwritten Assignment Evaluator:(June'17-Present):

• Building a web-app that is used for assignment collection, evaluation and distribution online.

MOHAN KUMAR A

• Technologies used: Python, Django

NASA Space Apps Challenge(April '17):

- Built an app that helps in better visualisation of NASA's data, that help in better learning experience.
- Our team's idea got nominated for the finals, from Hyderabad.

BotHack Hackathon(March '17):

- Worked with a 4 member team to build a chat bot that can help in improving the flight travel experience.
- Idea was to build a chatbot that can reply to people based on the tweets/complaints related to the airline service.

Cognitive Buying Assistant App(July'16 - May'17):

- Worked on dynamic faceted search which involves user query understanding via NLP using domain specific concept extraction.
- Worked on contextual recommendation based on the role assigned to each user using the app.

Lawyer Recommender App(Jan '16 - June'16):

- Based on the user's location or case requirements, the app recommends lawyers who might be a potential match.
- Worked on ETL cycle, which includes scraping data from web,transforming the data into the specified format and loading the extracted data in NoSQL database.
- Worked on enrichment of the loaded data so that any additional data will follow the same structure.
- Worked on loading the data into graph database Neo4j, which helps in representing how connected the data is.

Code Vulnerability Predictor(May '15 - July '15):

- Implemented a Machine learning model to predict the existence of a vulnerability in a code base based on the research work done by Riccardo Scandariato et al..
- Worked on Machine Learning tools like WEKA.

RELEVANT COURSEWORK TAKEN

- CS231n Stanford, taken by Fei Fei LI, Andrej Karpathy, Johnson
- Machine Learning, Coursera by Andrew NG
- Digital Image Processing

SKILLS

Languages: C,Python

Packages & Tools: Scikit, Neo4j, Selenium, Jmeter, numpy, OpenCV

Operating systems: Linux, Windows

VOLUNTEER EXPERIENCE

- Volunteer, Blue Cross of Hyderabad, India.
- Member, World Cube Association.

MOHAN KUMAR A 2